DOCKET NO.: JJPR-0032 (ORT-1377 DIV1)

Application No.: 10/626,445

Office Action Dated: April 26, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application.

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Listing of Claims:

- 1. (Currently Amended) An isolated and purified nucleic acid molecule that encodes a mammalian murine histamine H4 receptor protein, or a complement of said nucleic acid molecule, comprising a member selected from the group consisting of:
- (a) a polynucleotide <u>sequence</u> encoding a polypeptide comprising amino acids 1 to 391 of SEQ ID NO:8; and
- (b) a polynucleotide <u>sequence</u> which is <u>a full-length complement of</u> eomplementary to the <u>a polynucleotide of (a) sequence encoding amino acids 1 to 391 of SEQ ID NO:8;</u>
- 2. (Original) The nucleic acid molecule of claim 1 wherein the polynucleotide is RNA.
- 3. (Original) The nucleic acid molecule of claim 1 wherein the polynucleotide is DNA.
- 4. (Previously Presented) The isolated and purified nucleic acid molecule of claim 1 having the nucleotide sequence of SEQ ID NO:5.
 - 5. (Canceled)
- 6. (Currently Amended) An expression vector for expression of a mammalian histamine H4 receptor protein in a recombinant host, wherein said vector contains a nucleic acid sequence encoding a mammalian murine histamine H4 receptor protein having an amino acid sequence of SEO ID NO:8.
- 7. (Previously Presented) The expression vector of claim 6, wherein the expression vector contains a nucleic acid molecule having the nucleotide sequence of SEQ ID NO:5, and encodes a mammalian histamine H4 receptor protein.

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8. (Canceled)

9. (Currently Amended) A recombinant host An isolated cell containing a recombinantly cloned nucleic acid molecule encoding a mammalian murine-histamine H4

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receptor protein having the amino acid sequence of SEQ ID NO:8.

10. (Currently Amended) The recombinant host isolated cell of claim 9, wherein

said nucleic acid molecule has the nucleotide sequence SEQ ID NO:5.

11. (Canceled)

12. (Currently Amended) A substantially pure An isolated histamine H4 receptor

encoded by the nucleic acid molecule of claim 1.

13. (Previously Presented) The histamine H4 receptor according to claim

12, having the amino acid sequence SEQ ID NO:8.

14-15. (Canceled)

16. (Currently Amended) A process for expression of mammalian histamine H4

receptor protein in a recombinant host cell, comprising:

(a) transferring the expression vector of claim 6 into suitable host isolated cells;

and

(b) culturing the host-cells of step (a) under conditions which allow expression of

the mammalian histamine H4 receptor protein from the expression vector.

17-25. (Canceled)

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